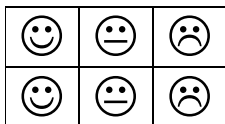
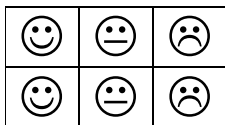


VOLUME and SURFACE AREA

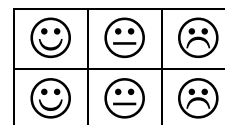
A: I understand what volume is and can work in cubic centimetres, millilitres and litres



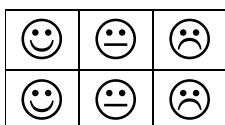
B: I can find the volume of cubes and cuboids



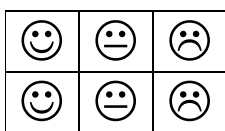
C: I can find the volume of prisms, including cylinders



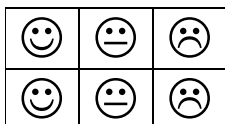
D: I can find the surface area of a 3D solid



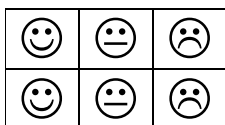
E: I can find volumes of spheres and cones



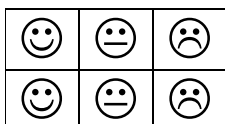
F: I can find volumes of composite solids



G: I can find a missing dimension of a prism given the volume



H: I can solve problems involving volume and surface area



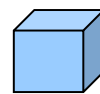
What is volume?

What are common units of volume?

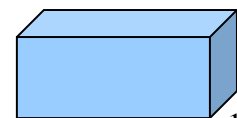
What units of volume are equivalent?

Write the **formula** for each 3D solid and **find the volume** of each given shape.

V =



5cm



8.8cm

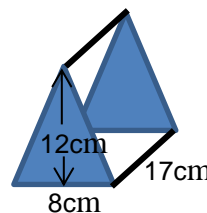
23mm
1.7cm

V =

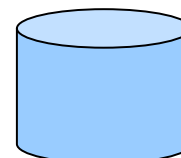
V =

(any prism)

(cylinder)



12cm
8cm



26cm

20cm

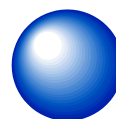
Find the surface areas of the solids above.

V =

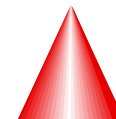
V =

(sphere)

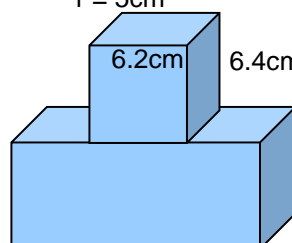
(cone)



r = 5cm



r = 3cm
h = 5cm

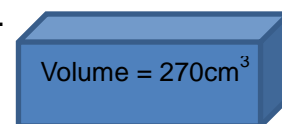


16.1cm

7.3cm

5cm

Calculate the height of the cuboid.



Volume = 270cm³

9cm

5cm

See revision pack